



Jefferson Lab Alignment Group

Data Transmittal

TO: Ed Daly

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FROM: R. Schwartz, J. Dahlberg

Checked:

: L980

DETAILS:

Below are the results of the 12 GEV Renaissance cryomodule return end cap inspection performed on March 18, 2005. A right handed coordinate system was established with the central axis running perpendicular to the end plate through the center aperture (origin). An average line constructed between the primary and shield supply bayonets was used to control roll. A +X is to the beam left, +Z downstream, and a +Y is above. Values are in inches and degrees.

Note: The coordinates listed below are to a single point at the top of the each bayonet flange. The pitch and roll measurements are to a mandrel inserted in each bayonet support. These angular values are determined over a 7 inch length of the mandrel for the primary and a 12 inch length for the shield which are accurate to within 0.03 and 0.02 degrees respectively.

Description	X	Y	Z
Primary bayonet	15.72	28.57	6.21
Shield bayonet	15.69	26.82	18.13

Description	Pitch	Roll
Primary bayonet	0.61° (top is downstream)	0.12° (top is beam right)
Shield bayonet	0.64° (top is downstream)	0.12° (top is beam left)